

QP CODE: 212329

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
November 2024**

M.Pharm (Pharmaceutical Analysis)

Paper II: Modern Bio-Analytical Techniques (MPA 202T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Describe in detail about solid phase extraction
2. Explain in detail about the USFDA guidelines for bioanalytical method validation
3. Explain the principle and procedure involved in MTT assay

Short Notes

(9x5=45)

4. Liquid- liquid extraction
5. Alternative methods of dissolution testing transport models
6. In vitro drug dissolution testing
7. Cytochrome p450 based drug interactions
8. Basic equipments used in cell culture lab
9. Factors affecting drug bioavailability
10. LC MS in proteomics
11. Clinical significance of bioequivalence studies
12. Cryopreservation
